

DERWENT-ACC-NO: 2006-636930

DERWENT-WEEK: 200667

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TITLE: Vane cell pump for supplying fluids has a rotor, a lifting ring and vanes with each one moving lengthwise in a slot in a rotor

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PATENT-ASSIGNEE: SIEMENS AG[SIEI]

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 1005007602 A1	August 24, 2006	N/A	006	F04C 002/00

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
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INT-CL (IPC): F04C002/00, F04C002/344

ABSTRACTED-PUB-NO: DE1005007602A

BASIC-ABSTRACT:

NOVELTY - A spring (5) is designed as a split washer (6) and has a V- or Z-shaped profile. Each vane (3) has a groove in which each spring is fastened. The symmetric shape of the split washer makes it possible to fit the split washer without relying on position. The split washer fits so that it remains continuously under tension so as to exert an elastic force on a vane's rear side.

USE - As a vane cell pump for supplying fluids, e.g. common rail fuel storage injection systems in motor vehicles.

ADVANTAGE - Each vane is pressed against the lifting ring by means of a spring in the slot. Fitting is considerably simplified, because the symmetric shape of the split washer makes it possible to fit the split washer without relying on position.

DESCRIPTION OF DRAWING(S) - The drawing shows a cross section of the present invention.

Rotor 1

Vane 3

Slot 4

Spring 5

Split washer 6

Front side on spring 16

Front side of slot 17

CHOSEN-DRAWING: Dwg.2A/4

TITLE-TERMS: ~~VANE CELL PUMP~~ SUPPLY FLUID ROTOR LIFT RING VANE ONE MOVE
LENGTHWISE SLOT ROTOR

DERWENT-CLASS: Q55

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2006-513015

